No.



9900371

# THE UNIVERD SHAVES OF ANY FERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME?

Golden Seed Company, T. L. G

MICCORS, THERE HAS BEEN PRESENTED TO THE

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR CONDITIONING IT

OPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR TVARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 AMENDED, 7 U.S.C. 2321 ET SEQ.)

CORN, FIELD

'GSC3'

In Testiment Morrest, I have hereunto set my hand and caused the seal of the Hant Haristy Protection Office to be affixed at the City of Washington, D.C. this thirteenth day of April, in the year two thousand and four.

Allest:

Bemjen-

Commissioner Plant Variety Protection Office Agricultural Marketing Service Secretary

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY-PLANT VARIETY PROTECTION OFFICE  APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)		The following state mants are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PPA) of 1995.  Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).				
1 NAME OF OWNER			2. TEMPORARY DESIGNATE EXPERIMENTAL NAME	ON OR	3. VARIETY NAME	<del></del>
Golden Seed Company, L.L.C.			EAFERINGERIAL NAME		GSC3	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	*** ***********************************		5. TELEPHONE (include area	code)	FOR OFFICIAL LISE ONL	Υ."
27525 135th Avenue North			(309) 654-2	234	<b>Р</b> VРО <b>NUMBER</b> 9900	371
Cordova, IL 61242			6. FAX (include area code)			• 1 I
			(309) 654-2	2256	FILING DATE	······································
	CORPORATI E OF INCOP 1 1 110 1	RPORATION	9. DATE OF INCORPORATIO 12-94	N	7-29-99	
10 NAME AND ADDRESS OF DWINER REPRESENTATIVE(S) TO SERVE IN THIS APPLICA	TION. (First	person listed will re	ceive ell papers)		FILING AND EXAMINATIO	<u> </u>
Ronald Walejko Golden Seed Co, L.L.C. 28017 US Hwy 151 East Platteville, WI 53818					E S 2450  R DATE 1 - 22  CERTIFICATION FEE:  432.00  DATE 3/8/04	99
11. TELEPHONE (include area code) 12. FAX (include area code)	13. E_M		goldenseedco, com		KIND (Comman Name)	
(608) 762-5104 (608) 762-5188	m <del>htc.net</del>	Corn	(dent inbre	ed lin		
15 GENUS AND SPECIES NAME OF CROP 16. FAMILY NAME (F			HYBRID?			NON .
Zea mayes L. May			Hydede Granineae 1 YES 121 NO			
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions serverse)  a	us taint	CERTIFIED	OWNER SPECIFY THAT SEED C SEED? See Section 83(a) of YES (If Yes", answer Items 20 and 21 below)	the Plant Va	triefy Protection Act)  NO (tf 'no," go to litem 22)	
c.  Exhibit C. Objective Description of Variety  d.  Exhibit D. Additional Description of the Variety (Optional)			20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?			
Exhibit E. Statement of the Basis of the Owner's Ownership  Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties varification that tissue culture will be depositied and maintained in an approved proposition)  Filing and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)	public	21. IF "YES" TO	TEM 20, WHICH CLASSES OF FOUNDATION REGIS	PRODUCTI		
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUC FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE OTHER COUNTRIES?	CED U. S. OR	23. IS THE VAR PROPERTY	HETY OR ANY COMPONENT OF RIGHT (PLANT BREEDER'S RIC	THE VARIE SHT OR PA	TY PROTECTED BY INTELLECTENT)?	CTUAL.
YES NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE			YES PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED			
FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on ne  24. The owners declare that a visible sample of basic seed of the variety will be furnished with	everse.)	REFERENC	E NUMBER. (Please use space i	ndicated on	MANERYS.)	·
for a tuber propagated variety a tissue culture will be deposited in a public repository and of The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagate and is antitled to protection under the provisions of Section 42 of the Plant Vanety Protection Owner(s) is(are) informed that take representation herein can jeopardize protection and re	ed plant veri on Act.	ety, and ballave(s)		ifonn, and s	table as required in Section 42,	
Eschapuse of owner Wales		SIGNATURE OF	OWNER			
Ronald Walejko		NAME (Plusse)	otint or type)			
CAPACITY OR TITLE  RESECTCH Director  7/20/ 3.7-470 (6-96) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces	99	CAPACITY OR			DATE  Jinformation collection burden s	

#### INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,45 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Varie Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amou of \$300 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

#### ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively:
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

  At the time of application, no seed was sold of variety GSC3 as a component part of any hybric
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

At the time of application, no patent number was issued to GSC3

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131.) 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213. Building 306, Beltsville Agricultural Research Center—East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per esponse, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in you letter. Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

The U.S. Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, and marital or familial status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA Office of Communications at (202) 720-2791. To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call (202) 720-7327 (voice) or (202) 720-1127 (TDD). USDA is an equal opportunity employer.

\$\$7-470 (6-98) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (03-96) which is obsolete.

### **Exhibit A. Breeding History of GSC3**

<u>Summer 1987</u>: A diallel of four lines, 329, 316, 317 and 335, was made. Three ears were crossed per each F1 cross. All six F1 crosses were successfully made with no variant or off-types observed this generation. At harvest, the three ears per F1 cross were shelled and 100 seeds from each F1 cross were bulked to make a 600 seed bulk. Line 329 was derived from lowa State University BS14 synthetic, line 316 was derived from CM105/LH145, line 317 was derived from H93/CM105 and line 335 was derived from B73/NR109. This four-line synthetic was named "EBSSS Syn 1".

<u>Winter 1987/88</u>: In Hawaii, 300 seeds were planted of "EBSSS Syn 1". There were 250 successfully sib-mated plants. All ears were harvested. Ten seeds from each ear were bulked to make a 2500 seed bulk composite. No variant or off-types were observed.

<u>Summer 1988</u>: Six hundred seeds of the 2500 seed composite were planted and 300 ears were selfed. Selection was applied for stand-ability and stay-green. Ninety-nine ears were advanced and grown ear-to-row the next generation. Again, no variant or off-types were observed in this generation.

<u>Summer 1989</u>: Ninety-nine S1 lines were grown, ear-to-row, at Platteville, Wisconsin. Ten plants were selfed within each row. At harvest, selection was applied for stay-green, earliness and stand-ability. Visual selection was also applied for disease-free ears. Thirty-six of the ninety-nine lines were advanced to the S2 level, selecting one ear per line.

<u>Summer 1990</u>: Thirty-six S2 lines were grown, ear-to-row, at Platteville, Wisconsin. Eight plants were selfed per row and the same summer and fall selection criteria was used as in the previous generation. At harvest, twenty S2 lines were advanced to the S3 generation.

<u>Summer 1991</u>: Twenty S3 lines were grown, ear-to-row, at Platteville, Wisconsin. Six plants per row were selfed and the same summer and fall selection criteria were used as in the previous two generations. At harvest, six S3 lines were advanced to the S4 generation. No variant or off-types were observed in this generation.

<u>Winter 1991/92</u>: Six S4 lines were grown, ear-to-row, in Hawaii. Six plants were self pollinated per row. No selection pressure was used in Hawaii. At harvest, one of the six ears per row was advanced to the next generation. No variant or off-types were observed in this generation.

## **Exhibit A. Breeding History of GSC3**

<u>Summer 1992</u>: Six S5 lines were grown, ear-to-row, at Platteville, Wisconsin. Again, six plants per row were selfed. At harvest, one ear from each of the two most uniform rows was selected. Selection was based on the uniformity of plants within the rows. Again, no variant or off-types were observed.

<u>Winter 1992/93</u>: Two S6 rows were planted in Hawaii and six plants were selfed per row. At harvest, one plant was selected within each row. Selection criteria was based only on a well-developed ear-type within the row.

<u>Summer 1993</u>: Two S7 rows were planted at Platteville, Wisconsin. All plants were selfed within the row. At harvest, 30 ears were harvested from the most uniform row and bulked. The sister line (row) was discarded. No variant or off-types were observed. The selected S7 row was uniform at this point in time.

<u>Summer 1994</u>: The bulk sample of 30 ears was grown at Platteville, Wisconsin in a twenty-row block. Ten plants per row were selfed. At harvest, five uniform, well-developed ears and plants were selected per row. The line was observed to be stable and uniform; therefore, the twenty rows were bulk shelled. This made up a 25,000 seed bulk.

<u>Winter 1995/96</u>: A 25,000 seed bulk was planted in an isolation in Chile, South America. No variant types were observed, however, five off-types were derogued out of the isolation prior to flowering. Again the line was stable and uniform. This was the third generation that GSC3 was uniform and stable.

<u>Summers 1996-98</u>: GSC3 was testcrossed to several male testers for hybrid performance evaluation.

#### **Exhibit B. Statement of Distinctness of GSC3**

GSC3's closest related variety would be the yellow dent variety of B73. GSC3 would differ from B73 by the following:

- 1. Its maturity is 1154.0 and 1197.0 heat units from emergence to 50% silk and 50% pollen, respectively. Meanwhile, B73's maturity is 1344.5 and 1379.5 heat units from emergence to 50% silk and 50% pollen, respectively.
- 2. Its plant height and ear height are 213.1 cm (+/- 6.93) and 62.7 cm (+/- 8.12), respectively, while B73's are 229.5 cm (+/- 6.17) and 94.6 cm (+/- 10.17), respectively.
- 3. Its leaf width and length of the ear node are 8.7 cm (+/- 0.65) and 76.0 cm (+/-4.75), respectively, while B73 is 9.6 cm (+/- 0.61) and 86.1 cm (+/- 3.83), respectively. Also, GSC3 has a 21-degree leaf angle (+/- 4.15) while B73 has an 11-degree leaf angle (+/- 3.23) on the second leaf above the ear at anthesis.
- 4. Its leaf color is dark green, Munsell code 7.5GY4-6, while B73 is medium-green, Munsell code 5GY6/8. Its leaf sheath pubescence is very heavy, rating a 9 (see Photo 1) and B73 is much less, rating a 3 on the scale. GSC3's leaves also have more marginal waves, rating a 7, and more longitudinal creases, rating a 3, as compared to B73, rating a 5 and a 1, respectively. Some evidence of GSC3's marginal waves and longitudinal creases can be seen in Photo 3.
- 5. Its tassel has 3 primary lateral branches (+/- 0.86) while B73 has 5 lateral branches (+/- 0.87). The branch angle from the central spike for GSC3 is 19 degrees (+/- 7.12) and B73 is 4 degrees (+/- 1.66). The pollen shed for GSC3 is slightly lighter, rating a 6, than B73, which rates an 8. GSC3's anther color is light green, Munsell code 2.5GY8/4, while B73 is salmon color, Munsell code 7.5YR8/4. GSC3's glume color is Munsell code 5GY6/8 with moderate accumulation of anthocyanin on the tip of the glumes (see Photo 3), while B73's glume color is medium green, Munsell code 5GY6/10.
- 6. Its silk color, three days after emergence, is light green, Munsell code 2.5GY8/6, and B73 is the same. Also, GSC3's fresh husk color 25 days after mid-silk is similar to B73. However, GSC3's dry husk color 65 days after mid-silk is pale yellow, Munsell code 5Y8/4 and B73 is light green, Munsell code 2.5GY8/6. At the dry husk stage, GSC3's position of the ear is pendant and B73 is more upright. GSC3 also has a very loose husk while B73 is moderately loose. Also, GSC3 has a shorter husk extension (5 cm) than B73 (8-10 cm). The difference in the husk colors 65 days after mid-silk is due in part to GSC3 being an earlier maturing variety than B73.



### **Exhibit B. Statement of Distinctness of GSC3**

- 7. Its ear length is 17.4 cm (+/- 0.57) while B73 is 12.8 (+/- 0.73). GSC3's ear diameter is 36.4 cm (+/-1.60) while B73 is 45.1 cm (+/- 1.27). GSC3's ear weight is 120.5 grams (+/- 12.83) while B73 is 103.9 grams (+/- 12.76). Also, GSC3 has 14 kernel rows (+/- 1.47) and B73 has 18 kernel rows (+/- 1.63).
- 8. Its dried kernel length is 8.9 mm (+/- 0.60) while B73 is 10.4 mm (+/- 0.81). Kernel width and thickness are similar to B73. GSC3 has less percent round kernels, 32% (+/- 6.18), as compared to B73, 40% (+/- 7.85).
- 9. Its cob diameter at mid-point is 22.4 mm (+/-1.0) while B73 is 27.6 mm (1.08).
- 10. Finally, GSC3's per se shelled grain yield is less than B73's. In a two replication, two-location test, GSC3 and B73 yields were 3136.5 and 4704.0 kg/hectare, respectively. The LSD (.05) was +/- 852.0 kg/ha.
- 11. Probabilities associated with Student's Paired t-test for traits of GSC3, as compared to B73, are shown in Table 1.

Table 1. Probability from Student's Paired t-test.

TRAIT	P value
Plant Height	1.70131E-10
Ear Height	2.00639E-11
Number of Tillers	0.000000000
Ears per Stalk	0.042896002
Width of Ear Node Leaf	7.83706E-05
Length of Ear Node Leaf	5.60477E-09
Leaf Angle	3.13232E-11
Number of Primary	
Lateral Tassel Branches	3.15047E-13
Tassel Length	0.882418459
Ear Length	6.37351E-20
Ear Diameter at Midpoint	1.69692E-16
Ear Weight	6.11946E-05
Number of Kernel Rows	6.98086E-06
Kernel Length	6.34597E-08
Kernel Width	0.103431219
Kernel Thickness	0.066616516



Photo 2: GSC3 - Anthocyanin of Brace Roots

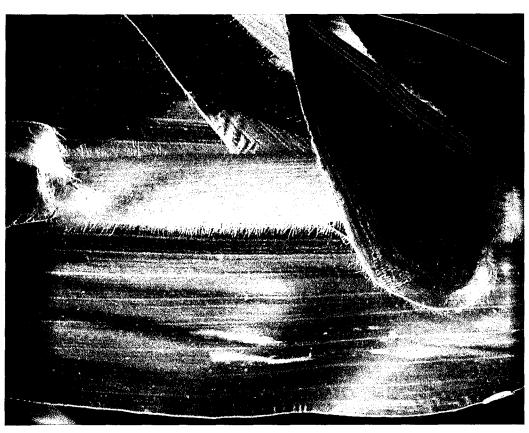


Photo 1: GSC3 - Leaf Sheath Pubescence



Photo 4: GSC3 - Silk Color



Photo 3: GSC3 - Tassel Lateral Branches

EXHIBIT C (Corn; Maize)

#### United States Department of Agriculture, Agricultural Marketing Service Science Division. Plant Variety Protection Office National Agricultural Library Building, Room 500 Beltsville, MD 20705

# OBJECTIVE DESCRIPTION OF VARIETY CORN (Zea mays L.)

Name of Applicant(s)		Variety Seed Sou	į.	Name or Temporary	Designation
Golden Seed Company, L.L.C.	/	9723	G S	S C 3	
Address (Street & No., or R.F.D. No., City, State, Zip Code	•		FOR OFF	CIAL USE	•
27525 135th Avenue North, Cord	ova, IL	61242	PVPO Nur	ber 9900	371
Place the appropriate number that describes the varietal of whole numbers by adding leading zeroes if necessary. Comp Traits designated by a '*' are considered necessary for an	leteness should	be striven for to	establish an ad	equate variety de	
02-Medium Green         07-Yellow         1:           03-Dark Green         08-Yellow-Orange         1:           04-Very Dark Green         09-Salmon         1:	to describe ali  =Pink  =Light Red  =Cherry Red  =Red & White	color choices: de 16-Pale Pur 17-Purple 18-Colories: 19-White 20-White Ca	ple 21= 22= s 23= 24= pped 25=	Buff	
STANDARD INBRED CHOICES (Use the most similar (in backgroun Yellow Dent Families:     Family Members     B14 CM105, A632, B64, B68     B37 B37, B76, H84     B73 N192, A679, B73, NC268     C103 Mo17, Va102, Va35, A682     Oh43 A619, MS71, H99, Va25     WF9 W64A, A554, A654, Pa91	Yellow Den ColO9, N Oh7, T23 W117, W1 W182BN White Dent	t (Unrelated): D246, 2 53R	Sw Po P1	ed on grow-aut treet Corn: C13. Iowa5125, P3: DCOrn: GG1533, 4722, HP3: DECOrn: MG15W. MG15W. MG2	9. 2132 01. HP7211
1. TYPE: (describe intermediate types in Comments section)					
* 2 1-Sweet 2=Dent 3=Flint 4=Flour 5=Pop 6=Ornamenta		ħ.	Standard Inbre $\frac{2}{2}$	d Name B73	
2. REGION WHERE DEVELOPED IN THE U.S.A.:			Standard Seed Source Towa State Univ		
* 2 1=Northwest 2=Northcentral 3=Northeast 4=Southeast 6=Southwest 7=Other	: 5=Southcentra	1 .	<u>2</u>		
3. MATURITY (In Region Best Adaptability: show Heat Unit to DAYS + $\frac{1}{7}$ 1 1 5 4.0 From emergence to 50% (	of plants in sil	k	DAYS 0	1 3 4 4 5	,
* $\frac{7}{3}$ $\frac{3}{1}$ $\frac{1}{9}$ $\frac{9}{7}$ , 0 From emergence to 50% of plants in pollen			<u>8</u> 2	1 3 7 9.5	,
2 4 8 0 From 10% to 90% pollen shed			$-\frac{3}{}$	7 6 0	
(*) From 50% silk to optimum edible quality					
49 910.0 From 50% silk to harve	st et 25% moistu	ire	<u>62</u>	<u>1 1 0 2.0</u>	·
	ndard Deviation	Sample Size	•	andard Deviation	Sample Sta
* $2  ext{ } 1  ext{ } 3  ext{ } 1  ext{cm}$ Plant Height (to tassel tip)	6.93	25	2 2 9 5	6.17	<del>25</del>
* 6 2 7cm Ear Height (to base of top ear node)	8.12	25	9 4 6	10.17	25
1 5 9cm Length of Top Ear Internode	1.15	25	1 3 9	1.37	25
O OAverage Number of Tillers	0.0	25	0,0	0.0	25
* 2. OAverage Number of Ears per Stalk	0.0	25	1.8	0.37	25
3 Anthocyanin of Brace Roots: 1-Absent 2-Fain	t 3-Moderate 4-0	ark	3		
Application Variety Deta	Page		Standard Inbr	ed Data	• .

Note: Use chart on first page to choose color codes for color traits.

Diplodia Ear Rot (Stenocarpella maydis)
Fusarium Ear and Kernel Rot (Fusarium moniliforme)

Note: Use chart on first page to choose color codes for color traits.

Gibberella Ear Rot (Gibberella zeae)

Other (Specify)

Application Variety Data

Standard Inbred Data

U.S. Department of Agriculture. 1936, 1937. Yearbook.

COMMENTS (eg. state how heat units were calculated, standard inbred seed source, and/or where data was collected. Continue in Exhibit D):

A ...

## Addendum to Exhibit C for Corn Inbred Variety GSC3

The data collected for the objective description of the variety GSC3 was collected during the summer of 1998 at Platteville, Wisconsin. There was 26.79 inches of rainfall during the growing season. This was slightly above the 30-year average. Heat units during the growing season were 2712, which was about 100 units above the 30-year average. No supplemental irrigation was used on these plots. Fertility is kept at a high level. With high fertility and above average heat units, plant top-growth was larger than normal. The variety B73 is a full season variety at this location.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE  EXHIBIT E  STATEMENT OF THE BASIS OF OWNERSHIP		The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.  Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).				
						1. NAME OF APPLICANT(S)
Golden Seed Company, L.L.C.		ON EXPENSIONENTAL NOMBER	GSC3 .			
4. ADDRESS (Street and No., or R.F.D. No., City	. State, and ZIP, and Country)	5. TELEPHONE (include area code)	6. FAX (include area code)			
27525 135th Avenue North		(309) 654-2234				
Cordova, IL 61242		(309) 654–2234 (309) 654–2256 7. PVPO NUMBER				
		990037/				
8. Does the applicant own all rights to the va	riety? Mark an "X" in appropi	riate block. If no, please explain.	X YES NO			
	•					
9. Is the applicant (individual or company) a  If no, give name of country	U.S. national or U.S. based or	ompany?	YES   NO			
10. Is the applicant the original owner?	X YES	O If no, please answer one of the fo	ollowing:			
	الله الله	· · · · · · · · · · · · · · · · · · ·				
a. If original rights to variety were owned	by individual(s), is (are) the or	iginal owner(s) a U.S. national(s)?				
YES NO If no, give name of country						
b. If original rights to variety were owned	by a company(ies), is(are) the	original owner(s) a U.S. based company	?			
	YES D	If no, give name of country	V.			
11. Additional explanation on ownership (if ne	eded, use reverse for extra s	pace):				
GSC3 was developed by Ronal The entire development of the Golden Seed Company, L.L.C. Walejko has no rights of ow the authority to apply for	his line was condu Golden Seed Comp mership to GSC3.	octed by Ronald Walejko wo bany has 100% ownership of this li	hile he was employed by f this line. Ronald			
PLEASE NOTE:	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
Plant variety protection can be afforded only to ov	mers (not licensees) who meet o	ne of the following criteria:				
1. If the rights to the variety are owned by the original which affords similar protection to nationals of			per country, or national of a country			
2. If the rights to the variety are owned by the commember country, or owned by nationals of a co	npany which employed the origi untry which affords similar prot	nal breeder(s), the company must be U.S. ba ection to nationals of the U.S. for the same	sed, owned by nationals of a UPOV genus and species.			
3. If the applicant is an owner who is not the original	nal owner, both the original own	ner and the applicant must meet one of the a	bove criteria.			
The original breeder/owner may be the individual	or company who directed final b	oreeding. See Section 41(a)(2) of the Plant \	ariety Protection Act for definition.			
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